25.4	Operation and maintenance of facilities	55	224	4,039
25.5	Research and development contracts	45	182	145
32.0	Land and structures	1	4	1
41.0	Grants, subsidies, and contributions	3	11	3
99.0	Direct obligations	136	522	4,327
99.0	Reimbursable obligations		20	20
99.9	Total new obligations	136	542	4,347

Employment Summary

Identification code 89-0318-0-1-999		2008 actual	2009 est.	2010 est.
	Direct:			
1001	Civilian full-time equivalent employment	70	67	67

Legacy Management

Program and Financing (in millions of dollars)

Identification code 89-0320-0-1-271		2008 actual	2009 est.	2010 est.
	Obligations by program activity:			
00.01	Legacy Management	34		
10.00	Total new obligations	34		
	Budgetary resources available for obligation:			
21.40	Unobligated balance carried forward, start of year		1	1
22.00	New budget authority (gross)	34		
22.22	Unobligated balance transferred from other accounts	1		
23.90	Total budgetary resources available for obligation	35	1	1
23.95	Total new obligations	-34		
24.40	Unobligated balance carried forward, end of year	1	1	1
	New budget authority (gross), detail:			
	Discretionary:			
40.00	Appropriation	34		
	Change in obligated balances:			
72.40	Obligated balance, start of year		23	14
73.10	Total new obligations	34		
73.20	Total outlays (gross)	-11	-9	-9
74.40	Obligated balance, end of year	23	14	5
	Outlays (gross), detail:			
86.90	Outlays from new discretionary authority	11		
86.93	Outlays from discretionary balances		9	9
87.00	Total outlays (gross)	11	9	9
	Net budget authority and outlays:			
89.00	Budget authority	34		
90.00	Outlays	11	9	9

This program supports non-defense related long-term stewardship activities (e.g., groundwater monitoring, disposal cell maintenance, and management of natural resources) at sites where active remediation has been completed. In addition, Legacy Management is responsible for the management and administration of pension and benefit continuity for contractor retirees at these sites. These activities are funded within the Other Defense Activities appropriation beginning in FY 2009.

Object Classification (in millions of dollars)

Identification code 89-0320-0-1-271		2008 actual	2009 est.	2010 est.
	Direct obligations:			
25.2	Other services	33		
41.0	Grants, subsidies, and contributions	1		
99.9	Total new obligations	34		

Energy Efficiency and Renewable Energy

For Department of Energy expenses including the purchase, construction, and acquisition of plant and capital equipment, and other expenses necessary for energy efficiency and renewable energy activities in carrying out the purposes of the Department of Energy Organization Act (42 U.S.C. 7101 et seq.), including the acquisition or condemnation of any real property or any facility or for plant or facility acquisition, construction, or expansion, [and the purchase of not to exceed two passenger vehicles for replacement, $1,928,540,000] *$2,318,602,000*, to remain available until expended[: *Provided*, That, of the amount appropriated in this paragraph, $228,803,380 shall be used for projects specified in the table that appears under the heading "Congressionally Directed Energy Efficiency and Renewable Energy Projects" in the text and table under this heading in the explanatory statement described in section 4 (in the matter preceding division A of this consolidated Act)]. *(Energy and Water Development and Related Agencies Appropriations Act, 2009.)*

[In addition to the amounts otherwise provided by section 101 for "Department of Energy—Energy Programs—Energy Efficiency and Renewable Energy" for weatherization assistance under part A of title IV of the Energy Conservation and Production Act (42 U.S.C. 6861 et seq.), there is appropriated $250,000,000 for an additional amount for fiscal year 2009, to remain available until expended.]

[The amount provided by this section is designated as an emergency requirement and necessary to meet emergency needs pursuant to section 204(a) of S. Con. Res. 21 (110th Congress) and section 301(b)(2) of S. Con. Res. 70 (110th Congress), the concurrent resolutions on the budget for fiscal years 2008 and 2009.] *(Continuing Appropriations Resolution, 2009.)*

Program and Financing (in millions of dollars)

Identification code 89-0321-0-1-270		2008 actual	2009 est.	2010 est.
	Obligations by program activity:			
00.01	Hydrogen technology	206	169	68
00.02	Biomass and biorefinery systems R&D	262	230	235
00.03	Solar energy	226	175	320
00.04	Wind energy	49	55	75
00.05	Geothermal technology	22	44	50
00.06	Water power energy	10	40	30
00.07	Vehicle technologies	209	273	334
00.08	Building technologies	108	140	238
00.09	Industrial technologies	63	90	100
00.10	Federal energy management program	20	22	32
00.11	Facilities and infrastructure	15	76	63
00.12	Weatherization and intergovernmental activities	291	516	301
00.13	Progam direction/support	115	146	358
00.14	Congressionally directed projects	184	229	
00.15	Education Initiative			115
00.91	Direct Program by Activities - Subtotal (1 level)	1,780	2,205	2,319
01.00	Total, direct program	1,780	2,205	2,319
02.01	Recovery Act Projects		15,512	1,288
09.10	Reimbursable program	676	508	500
10.00	Total new obligations	2,456	18,225	4,107
	Budgetary resources available for obligation:			
21.40	Unobligated balance carried forward, start of year		28	1,288
22.00	New budget authority (gross)	2,388	19,479	2,819
22.22	Unobligated balance transferred from other accounts	96	6	
23.90	Total budgetary resources available for obligation	2,484	19,513	4,107
23.95	Total new obligations	-2,456	-18,225	-4,107
24.40	Unobligated balance carried forward, end of year	28	1,288	
	New budget authority (gross), detail:			
	Discretionary:			
40.00	Appropriation	1,739	2,179	2,319
40.01	Appropriation, Recovery Act		16,800	
40.35	Appropriation permanently reduced	-17		
41.00	Transferred to other accounts	-18		
43.00	Appropriation (total discretionary)	1,704	18,979	2,319

ENERGY EFFICIENCY AND RENEWABLE ENERGY—Continued
Program and Financing —Continued

Identification code 89-0321-0-1-270		2008 actual	2009 est.	2010 est.
	Spending authority from offsetting collections:			
58.00	Offsetting collections (cash)	325	500	500
58.10	Change in uncollected customer payments from Federal sources (unexpired)	359	.....	.....
58.90	Spending authority from offsetting collections (total discretionary)	684	500	500
70.00	Total new budget authority (gross)	2,388	19,479	2,819
	Change in obligated balances:			
72.40	Obligated balance, start of year	.....	1,288	16,003
73.10	Total new obligations	2,456	18,225	4,107
73.20	Total outlays (gross)	-809	-3,510	-13,541
74.00	Change in uncollected customer payments from Federal sources (unexpired)	-359	.....	.....
74.40	Obligated balance, end of year	1,288	16,003	6,569
	Outlays (gross), detail:			
86.90	Outlays from new discretionary authority	812	2,417	1,544
86.93	Outlays from discretionary balances	-3	1,093	11,997
87.00	Total outlays (gross)	809	3,510	13,541
	Offsets:			
	Against gross budget authority and outlays:			
	Offsetting collections (cash) from:			
88.00	Federal sources	-49	-400	-400
88.40	Non-Federal sources	-276	-100	-100
88.90	Total, offsetting collections (cash)	-325	-500	-500
	Against gross budget authority only:			
88.95	Change in uncollected customer payments from Federal sources (unexpired)	-359	.....	.....
	Net budget authority and outlays:			
89.00	Budget authority	1,704	18,979	2,319
90.00	Outlays	484	3,010	13,041

Energy Efficiency and Renewable Energy (EERE) programs undertake research, development, demonstration and deployment activities to advance technologies and related practices to help meet the growing global demand for clean, reliable, sustainable, and affordable energy services and to reduce energy consumption. EERE programs include:

Hydrogen Technology.—This program aims to reduce petroleum use, greenhouse gas emissions, and criteria air pollutants, and to contribute to a more diverse and efficient energy infrastructure by enabling the widespread commercialization of hydrogen and fuel cell technologies.

Biomass.—This program funds research, development, and deployment to validate and assist in commercialization of integrated biorefinery technologies. The program's activities include the development of biomass conversion technologies and environmentally sustainable feedstock production systems. The program's long-term goal is to enable industry to develop commercial biorefineries that can sustainably and economically convert lignocellulosic biomass and algae to fuels, chemical, heat, and power. The program's near-term goal is to help make cellulosic ethanol cost competitive by 2012 using a wide array of regionally available biomass resources and biorefinery pathways.

Solar Energy.— The program's main objective is to achieve cost parity for solar electricity by 2015. To achieve this objective, the Photovoltaic subprogram collaborates with several industry-led consortia focusing on lowering costs through manufacturing and efficiency improvements. The Concentrating Solar Power subprogram is developing thermal storage to provide baseload power on demand. Additionally, the Systems Integration and Market Transformation subprograms support cost goals by addressing grid integration issues and accelerating the deployment of solar through city outreach and workforce development efforts.

Wind Energy.—This program develops technology in partnership with industry to improve the reliability and affordability of land-based wind energy systems. The program also supports activities that help reduce barriers to electric grid interconnection, as well as other issues related to technology acceptance in the market. The program supports offshore wind energy development through technology development and characterization as well as through resource assessment.

Water Power.—This program conducts research, development, validation testing and deployment of innovative water technologies to accelerate market penetration of cost-effective and environmentally responsible renewable power generation from water. Early priorities of this relatively new program include: cost and resource assessments of the suite of potential marine, hydrokinetic, and advanced hydropower technologies, and environmental studies.

Vehicle Technologies.—The program's R&D seeks technology breakthroughs that will enable the U.S. to greatly reduce highway transportation petroleum use and greenhouse gas emissions. Program activities encompass a suite of technologies for hybrid, plug-in hybrid, fuel cell, and advanced efficiency vehicles, including lightweight materials, electronic power controls and electric driven motors, and advanced energy storage devices. This program also supports research to improve the efficiency of advanced combustion engines, using fuels with formulations developed for advanced engines, and incorporating non-petroleum based fuels components. The program also funds community-based outreach via Clean Cities coalitions, competitive awards, and other activities to facilitate the market adoption of alternative fuels and highly efficient automotive technologies.

Building Technologies.—In partnership with the buildings industry, the program develops, promotes, and integrates energy technologies and practices to make buildings more efficient and affordable. The Building Technologies Program accelerates the availability of highly efficient building technologies and practices through research and development; increases the minimum efficiency of buildings and equipment through the promotion of model building efficiency codes and the promulgation of national lighting and appliance standards; and encourages the use of energy-efficient and renewable energy technologies and practices in residential and commercial buildings through activities such as the Solar Decathlon, ENERGY STAR partnership with EPA, and the Builders Challenge.

Industrial Technologies.—The Industrial Technologies Program supports cost-shared R&D of technologies to reduce industry's energy intensity and carbon emissions. Market transformation and technology development and deployment activities are pursued to accelerate industry's adoption of clean energy technologies that increase energy productivity.

Federal Energy Management Program.—This program enables the Federal Government to meet the relevant energy, water, and transportation goals of existing legislation and Executive Orders by providing interagency coordination, technical expertise, training, financing resources and contracting support.

Facilities and Infrastructure.—This activity provides funding for the National Renewable Energy Laboratory for general plant projects,maintenance, upgrades, and new facilities in support of EERE's R&D mission.

Weatherization and Intergovernmental Activities.—The Weatherization and Intergovernmental Activities program supports clean energy deployment in partnership with State, local, U.S. Territory, and Tribal governments. The State Energy Pro-